**Vizoovet**

Vizoovet is an all-natural eye drop used to treat symptoms of ocular surface diseases. This revolutionary product contains three key ingredients to soothe and protect the ocular surface.

Vizoovet composition:

* Propolis1-11
	+ Specific type of bee’s wax
	+ Rich in polyphenols and other components
	+ Research verified properties:
		- Antimicrobial
		- Anti-inflammatory
		- Anti-angiogenic
		- Analgesic
		- Improves wound healing
* Aloe Vera12-14
	+ Contains aloins and emodins
	+ Research verified properties:
		- Improves wound healing
		- Antimicrobial
* Chamomile15-16
	+ Contains alfa-bisabolos and azulins
	+ Research verified properties:
		- Spasmolytic
		- Antiseptic
		- Antioxidant
		- Improves wound healing

Types of ocular surface disorders that can benefit from Vizoovet.

* Keratoconjunctivitis sicca
* Qualitative tear film disease
* Allergic blepharitis and blepharoconjunctivitis
* Ulcerative keratitis
* Feline keratoconjunctivitis (see Claudio Peruccio study)

References:

1. Shi YZ, Liu YC, Zheng YF, et al. Ethanol extract of Chinese propolis attenuates early diabetic retinopathy by protecting the blood-retinal barrier in streptozotocin-induced diabetic rats. Journal of Food Science 2019; 84: 358-369.
2. Erturkuner SP, Yaprak Sarac E, Cogmez SS, et al. Anti-inflammatory and ultrastructural effects of Turkish propolis in a rat model of endotoxin-induced uveitis. Folia Histochemica et Cytobiologica 2016; 54: 49-57.
3. Martin LF, Rocha EM, Garcia SB, et al. Topical Brazilian propolis improves corneal wound healing and inflammation in rats following alkali burns. BMC Complementary and Alternative Medicine 2013; 27: 337.
4. Emre S, Yilmaz Z, Ozturk F, et al. Propolis prevents the effects of chronic alcohol intake on ocular tissues. Ophthalmic Research 2009; 42: 147-151.
5. Keshavarz M, Mostafaie A, Mansouri K, et al. Inhibition of corneal neovascularization with propolis extract. Archives of Medical Research 2009; 40: 59-61.
6. Vural A, Polat ZA, Topalkara A, et al. The effect of propolis in experimental Acanthamoeba keratitis. Clinical and Experimental Ophthalmology 2007; 35: 749-754.
7. Onlen Y, Tamer C, Oksuz H, et al. Comparative trial of different anti-bacterial combinations with propolis and ciprofloxacin on Pseudomonas keratitis in rabbits. Microbiological Research 2007; 162: 62-68.
8. Duran N, Koc A, Oksuz H, et al. The protective role of topical propolis on experimental keratitis via nitric oxide levels in rabbits. Molecular and Cellular Biochemistry 2006; 281: 153-161.
9. Oksuz H, Duran N, Tamer C, et al. Effect of propolis in the treatment of experimental Staphylococcus aureus keratitis in rabbits. Ophthalmic Research 2005; 37: 328-334.
10. Ozturk F, Kurt E, Cerci M, et al. The effect of propolis extract in experimental chemical corneal injury. Ophthalmic Research 2000; 32: 13-18.
11. Hepsen IF, Er H, Cekic O. Topically applied water extract of propolis to suppress corneal neovascularization in rabbits. Ophthalmic Research 1999; 31: 426-431.
12. Vecchione A, Celandroni F, Lupetti A, et al. Antimicrobial activity of a new aloe vera formulation for the hygiene of the periocular area. Journal of Ocular Pharmacology and Therapeutics 2018; 34: 579-583.
13. Atiba A, Wasfy T, Abdo W, et al. Aloe vera gel facilitates re-epithelialization of corneal alkali burn in normal and diabetic rats. Clinical Ophthalmology 2015; 9: 2019-2026.
14. Curto EM, Labelle A, Chandler HL. Aloe vera: an in vitro study of effects on corneal wound closure and collagenase activity. Veterinary Ophthalmology 2014; 17: 403-410.
15. Mamalis A, Nguyen DH, Brody N, et al. The active natural anti-oxidant properties of chamomile, milk thistle, and halophilic bacterial components in human skin in vitro. Journal of Drugs in Dermatology 2013; 12: 780-784.
16. Woollard AC, Tatham KC, Barker S. The influence of essential oils on the process of wound healing: a review of current evidence. Journal of Wound care 2007; 16: 255-257.

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